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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/069,704	02/26/2002	John Gerard Beerends	PTT-133(402582US)	3989

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EXAMINER

ARMSTRONG, ANGELA A

ART UNIT	PAPER NUMBER
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2654

DATE MAILED: 08/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/069,704

Applicant(s)

BEERENDS

Examiner

Angela A. Armstrong

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 February 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 21-40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 21-40 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 February 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

1. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 21-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Karlsen (WO 97/15124) in view of Hollier (WO 94/00922).

3. Regarding claim 21, Karlsen discloses measuring a talking quality of a telephone link I a telecommunication network, (page 3, line 19 to page 8, line 12); combining a talker speech signal and a signal (r (t)), which occurred in a return channel of the telephone link as a consequence of the transmission of the talker speech signal in a forward channel of the telephone

link, to a combined speech signal $s'(t)$ (page 3, line 19 to page 8, line 12); subjecting the combined speech signal to a quality measurement (page 7, line 7 to page 8, line 12).

Karlsen does not specifically teach implementation of an objective measurement for measuring a perceptual quality of speech signals and producing an output signal, which represents an estimated value concerning the talking quality. However, implementation of objective speech quality measurements of telecommunications equipment was well known in the art, so as to efficiently detect the degradation of signals transmitted over communication links.

In a similar field of endeavor, Hollier teaches a method and apparatus for objective speech quality measurements of telecommunications equipment, which measures a perceptual quality of speech signals and producing an output signal which represents an estimated value of the acceptability of the telecommunications apparatus (page 7, line 14 to page 8, line 10; page 11, line 20 to page 13, line 26).

It would have been obvious to one of ordinary skill at the time of the invention to modify the system of Karlsen to implement an objective measurement of the perceptual quality of the speech signals, as suggested by Hollier, for the purpose of detecting any degradation of the signals transmitted and thereby verifying the quality of the adaptation of the filter of Karlsen.

Regarding claims 22 and 26-27, the teachings of Karlsen and Hollier provide support for the combining step comprises a signal addition of the returned signal and the talker speech signal (page 4, lines 7-15).

Regarding claim 23, the teachings of Karlsen and Hollier provide support for inverse filters (page 3, line 19 to page 8, line 12).

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Regarding claims 24-25 and 28, the teachings of Karlsen and Hollier provide support for the talker signal and returned signal are obtained from the telephone link (page 3, line 19 to page 4, line 6).

Regarding claim 29, the teachings of Karlsen and Hollier provide support for an echo-minimizing device included in the telephone link (page 7, line 7 to page 8, line 12).

Regarding claim 30, the teachings of Karlsen and Hollier provide support for a monitoring system (page 3, line 19 to page 8, line 12).

Regarding claim 31, the teachings of Karlsen and Hollier provide support for storing signals (page 7, line 14 to page 8, line 10; page 11, line 20 to page 13, line 26).

Regarding claims 32-40, claims 32-40 are apparatus and circuitry claims similar in scope and content to method claims 21-31, and are therefore rejected under similar rationale.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hollier (US Patent No. 6,304,634)

Kuenzig (US Patent No. 5,572,570)

Randic (US Patent No. 6,275,797)

Hollier (US Patent No. 5,999,900)

Hollier (US Patent No. 5,890,104)

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela A. Armstrong whose telephone number is 571-272-7598. The examiner can normally be reached on Monday-Thursday 11:30-8:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on 571-272-7602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Angela A Armstrong
Examiner
Art Unit 2654

July 20, 2005
AAA

A handwritten signature in black ink that reads "Angela Armstrong". The signature is written in a cursive, flowing style.